



A.oryzaeCP1	293	AVNETVYN - - - - YMKFANQMPNGCQDLISTCKQTN
PenicilliumS3	207	IDSSTRDS - - - - LLDAYN - - - NQCLPALQQCSQSG
PenicilliumS1	225	LEHLHKSCGYADFDIDKYLTFFPPKEQPPLFFNYTS
A.phoenicis	271	INGKADKCGYN AFLDKAITYP PP - - - TPFP TAPEI
A.niger	278	LES IHEQCGYKDFIDQYLVFPASGVQPPKAMNWS D
A.oryzaeCP1	324	RTALADYALCAEATNMCRDNVEGPYYAFAGRGVYD
PenicilliumS3	235	STS - - - - DCTNADSVCYQNI EGPISSSGDFDVYD
PenicilliumS1	260	MANEDVFD MVYNEVF KINPCFDLYEVNLMCPLQWD
A.phoenicis	303	TEDCQVWDEVVMAAYDINPCFNYYHLIDFCPYLWD
A.niger	313	PT - CDVYDIVNNAVLDPNPCFN PYEINEMCPI LWD
A.oryzaeCP1	359	IR - H P YDDPTPPSYYNKFLAKDS VMDAIGVN - INY
PenicilliumS3	265	IR - E PSNDPYPPKTYSTYLS DPT VVKAIGAR - TNY
PenicilliumS1	295	VLA F P TSLVYQPAGATVYFDRAD VKKALHAPNVTW
A.phoenicis	338	VLGF P S - - - - LGFGPDNYFNRS D VQKILHVPPTDY
A.niger	347	VLGF P TEVDYLPAGAS IYFDRAD V KRAMHAPNITW
A.oryzaeCP1	392	TQSNNDVYYAFQQTG - - - - D FVWPNFIED LEEIL
PenicilliumS3	298	QECPNGPYNKFASTG - - - - DNPRS - FLST LSSVV
PenicilliumS1	330	AECNNPVFVGGSSGPEQEG D T SANPIEHV L PQVI
A.phoenicis	369	SVCSETVIFANGDGS - - - - DPSS - - - WG P LPSVI
A.niger	382	SECSVESVFVGGDGGPEQEG D Y SANPIEHV L PQVI
A.oryzaeCP1	422	ALPVRVSLIY G DADYICNWF G GQAVSLAANYSQAA
PenicilliumS3	327	QSGINVLVWAG DADWICNWL G NYEVANAVDFPGNA
PenicilliumS1	365	EATNRVLISNG D FDMVILTN G TLLAIQNMTWNGHL
A.phoenicis	396	ERTNNTIIGH G WLDYLLFLNG S LATIQNMTWNGKQ
A.niger	417	EGTNRVLIGN G DYDMVILTN G TLLSIQNMTWNGKL
A.oryzaeCP1	457	Q F RSAGYT P LKVNGVEYGETREYGNFSFTRVYEAG
PenicilliumS3	362	Q F S ALDLAPY TVNGVEKGQFKTVDNFSFLKVYGAG
PenicilliumS1	400	G F QKKPSAP I DIKIPDLQYKEVFAEN - GASSLDGA
A.phoenicis	431	G F QSPPE P L FVPYHYGLAELYWGDEPDYPNLDAG
A.niger	452	G F D TAPST P I NIDIPDLMYNEVFIEN - GYD - PQGG
A.oryzaeCP1	492	HEVPYYQPIASLQLFNRTIFGWDIAEGQKKIWPSY
PenicilliumS3	397	HEVPYYQPDTALQAFKQIIQ - - - - - KKPI SST -
PenicilliumS1	434	QGIMGVQHYERGLMKAQTYQSG - - - - HMQPQYQP -
A.phoenicis	466	AGYLGTAHTERGLTFSSVYLSG - - - - HEIPQYVPG
A.niger	485	QGVMIQH YERGLMWAETFQSG - - - - HMQPQFQP -
A.oryzaeCP1	527	K TNGTATATH TQSSVPLPTATSMSSVGMA
PenicilliumS3	0	- - - - -
PenicilliumS1	464	- - - - - RVAYRHLEWLLKRTDELQ - - - -
A.phoenicis	497	ALTASWSSCLVELIVFPRRGTTPLNFS - -
A.niger	515	- - - - - RVSYRHLEWLLGRRDTL - - - -

Fig. 4B



A.oryzaeCP1	1	- - - - -MRGYEFLSVLPLVAAS - - - - -WAL
PenicilliumS3	1	- - - - -
PenicilliumS1	1	- - - - -
A.phoenicis	1	- - - - -MRITSAIASLLLVGTATSLQN - - -PHRRAV
A.niger	1	MLFRSLLSTAVLAVSLCTDNASAAKHGRFGQKARD
A.oryzaeCP1	20	PGSTPASVGRRQLPKNPTGVKTLTTANNVTIRYKE
PenicilliumS3	1	- - - - -FVKN - - - - -
PenicilliumS1	1	- - - - -STKNYRFLNEKTKANLV
A.phoenicis	28	PPPLTHRSVASRAVPVERRSNDFEYLTNKTARFLV
A.niger	36	AMNIAKRSANAVKHSCLKIPVEDYQFLNNKTKPYRV
A.oryzaeCP1	55	PGAEGVCETTPGVKS[YS][G]YVDTSP - -ESHTF[F]W[F]F
PenicilliumS3	5	- - -SGICETTPGVNQ[YS][G]YLSVGS - -NMNMW[F]W[F]F
PenicilliumS1	18	H - -HLPDVPYDIGEM[YS][G]LMPIDMHNESRALFYIF
A.phoenicis	63	NGTSIPEVDFDVGESYAGLLPNTPTGNSSLFFFWFF
A.niger	71	E - -SLPDVHFDLGE[YS][G]LVPIEKGNVSRSLFFVFF
A.oryzaeCP1	88	EARHNPETAPITLW[LV][N]GGPG[SD][S]LIGLFEELG[P]CH
PenicilliumS3	35	EARNNPQQAPLAAW[FN]GGPG[CS][S]MIGLFQENG[P]CH
PenicilliumS1	51	QPTIGEPVDEVTIWM[NG]GGPG[CS][S]MESFLQETGRFL
A.phoenicis	98	PSQNPDA[DE]ITIW[LV][N]GGPG[CS][S]LDGLLQENG[P]FL
A.niger	104	QPTIGEPVDEITIW[LV][N]GGPG[CS][S]LEAFLQENG[R]FV
A.oryzaeCP1	123	-VNSTFDDYIN[PH]SW[NE]VS[N]LLFLS[QPL][G]V[G]F[S]YS
PenicilliumS3	70	FVNGDSTPSLN[EN]SW[N]NYANMIYIDQP[IG]V[G]F[S]YG
PenicilliumS1	86	WQPGTYAPVEN[PY]SW[V]LT[N]VLWVDQP[VGT]GYSIG
A.phoenicis	133	WQPGTYKVPV[PN]PY[SW]TNLT[N]VVYIDQP[AGT]GFSFG
A.niger	139	WQPGTYQPVEN[PN]PY[SW]VNLTN[VL]WVDQP[VGT]GFSLG
A.oryzaeCP1	157	DTV[DG]SINPVTGVVENSSFAGVQGRYPTIDATLID
PenicilliumS3	105	- -TDDVTSTVT - - - - -
PenicilliumS1	121	TPTATSQ - - - - -
A.phoenicis	168	PSTVNDE - - - - -
A.niger	174	VPTATSE - - - - -
A.oryzaeCP1	192	TTNLAEEAAWEILQG[F]LSGLPSLDSRVQSKDFSLW
PenicilliumS3	114	- - - - -AAPYVWNLLQAFY[AQR]PEYES - - - - -RDFAI[F]
PenicilliumS1	128	- - - - -EETAQDFVK[F]FKNFQKTYG[IKN] - -FKIYVT
A.phoenicis	175	- - - - -EDVAAQFNSW[F]KFHFDVDTFDLHG - -RKVYIT
A.niger	181	- - - - -EEIAEDFVK[F]FKNWQQIFG[IKN] - -FKIYVT
A.oryzaeCP1	227	T[ES]Y[G]G[H]Y[G]P[A]FFNHFYEQNERIANGSVN[G]VQLNF
PenicilliumS3	141	T[ES]Y[G]G[H]Y[G]P[E]FASYIEQQNAAIKAGSVT[G]QNVNI
PenicilliumS1	156	G[ES]Y[AG]R[Y]V[P]YISAAMLDEKD -KEYFDLQ[G]ALAYD
A.phoenicis	203	G[ES]Y[AG]M[Y]V[P]YIADAMLNEED -TTYFNLK[G]IQIND
A.niger	209	G[ES]Y[AG]R[Y]V[P]YISAAFLDQND -TEHFNLK[G]ALAYD
A.oryzaeCP1	262	NSLGIINGIIDEAIAQAPYYPE - - - - -F[AV]N[NT]YGIK
PenicilliumS3	176	VALGVNNGWIDSTIQEKAYID - - - - -F[SY]N[NS]YQQI
PenicilliumS1	190	PCIGQFDYVQEEIPVVPFVKENANL[FN]F[N]ETFMAE
A.phoenicis	237	PSINS -DSVMMYSPAVRHLNHYNNI[FRL]N[ST]FLSY
A.niger	243	PCIGQFDYVQEEAPVVPFVQKNNAL[FN]F[N]ASFLAE

Fig. 4A